



When the sun lets out bursts of charged particles, some of them flow right down into Earth's atmosphere near the Poles. When these charged particles hit Earth's atmosphere, they cause the gases in the air to glow in beautiful shades of green and red. Play "Shields Up" and protect Earth satellites from space weather like this!

[/shields-up](#)

Photo Credit: Wikimedia commons Frank Olsen

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Sunday Monday Tuesday Wednesday Thursday Friday Saturday

National Thank You Month.
To thank your teachers for their wonderful work, we have downloadable posters of space and Earth.
[/posters](#)

On this calendar
[/](#)
means
[spaceplace.nasa.gov/](#)

1  LAST QUARTER
Galileo saw Saturn's rings through a telescope in 1610. Could a spaceship land on Saturn's rings?
[/dr-marc-solar-system](#)
New Years Day

7 **Galileo** first spots what become known as Jupiter's Galilean moons. How do these moons interact with each other and their massive parent?
[/io-tides](#)

8 **Physicist Stephen J. Hawking** born 1942. He writes about black holes. How does it "sound" when a big star is swallowed by a black hole?
[/ligo-g-waves](#)

4 **Earth at perihelion**, the time of year when it is closest to the sun. Just how close is Earth to the sun right now?
[/seasons](#)

11 **Amelia Earhart** is the first woman to fly solo across the Pacific in 1935. How did her airplane stay up?
[/dr-marc-technology](#)

20 **Penguin Awareness Day.** Emperor penguins migrate each year to breed. What other animals migrate?
[/migration](#)

25 **Mars rover Opportunity** landed on Mars in 2004. Get the inside story on the latest Mars rover, Curiosity.
[/mission-chronicles/](#)
[#milkovich](#)

29 **National Puzzle Day.** Unscramble beautiful "Earth-as-Art" puzzles.
[/spuzzled](#)

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